

Where shall we go next?

Background

Goku (Kakarrot!) is visiting Paris this summer and one of his stops is the super saiyan Louvre. He will arrive to the main entrance of the museum at 9:00 AM and must leave before 5:00 PM the same day. He has prepared a list of works that he wants to visit, the amount of time (in minutes) he wishes to spend at each work, and a “reward” for visiting each work as detailed in the [Next.data](#) file. The travel time between each work is provided in the [Next_tt.data](#) file. Additionally, Goku will take a lunch break of an hour anytime between 12:00 (noon) and 3:00 PM and the cafeteria is located at the main entrance.



Question

Goku has asked for your help to plan out his day at the Louvre. He wants to maximize the total reward earned from visiting the works that he wants to see given that he arrives at the main entrance at 9:00, leaves the main entrance before 17:00, and has a one hour lunch between 12:00 and 15:00.

Datasets Provided

[Next.data](#) - Information about the works

A table with 52 entries (each entry contains the information of one work) and 4 columns as below.

work id	work name	time to spend	reward
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Next_tt.data - Travel time between each work

A 52 x 52 table representing the travel time between works.

For example, the entry on row 2 column 8 represents the time it takes to travel from work 2 to work 8.

Solution Requirements

Let 0 represent time at 9:00, so 60 is 10:00, and 480 is 17:00. Only integer time is allowed. Provide a list of work id's to visit and its associated arrival time starting and ending at the main entrance (work id = 0) in a space separated **.data** or **.txt** or **.csv** file.

Sample Solution

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0 0
13 245
0 256
14 335
0 443
```